

Matrix Nylon Screen Ink

Code Ref: 419

technical information and application instructions

Substrates Polyester or nylon Denier600D or Denier fibre.

End Uses Bags, advertising banners, etc.

Product Information

The Matrix Nylon Screen Ink is designed primarily for printing onto Denier600 or Denier200 polyester or nylon fibres. The inks will dry to a film exhibiting good gloss, flexibility and excellent scuff and water resistance.

Application Information

While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. See full disclaimer at end of document.

Mesh 43T to 90T Monofilament polyester mesh is recommended for most applications.

Stencil All direct photo emulsions, photo stencil films and hand cut stencil films that are solvent resistant.

Squeegee Sharp edge 70-80 durometer polyurethane blades as well as triple durometer blades that produce an even ink deposit.

Coverage Approximately 15-20sq. meters per kg of ink depending on the mesh used and the absorbency of the substrate.

Reducer D564-S167 reducer and D564-S168 retarder.

Drying These inks dry by solvent evaporation. Air-dry will take 20-40 minutes for a single ink layer. On coarse materials, it is common to print 2-3 layers of inks. This will take many times longer to completely dry – *do not confuse surface dry with through dry.*

May be jet dried – use minimum heat on multilayer prints to avoid trapping solvent on the lower layers.

[continued...]

manufacturing under licence to NAZDAR

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General Guidelines

Ink Handling All personnel mixing and handling inks must wear gloves and eye protection. Clean up spills immediately. If ink does come in contact with skin, wipe off with a clean, dry, absorbent cloth (do not use solvent or thinner). Wash and rinse affected area with soap and water. Consult the Matrix Nylon SDS for further instructions and warnings.

Adhesion Testing Test adhesion as follows:

1. **Touch of ink surface** – The ink will be smooth and slick.
2. **Thumb twist** – The ink surface will not mar or smudge.
3. **Scratch surface** – The ink will resist scratching.
4. **Cross hatch tape test** – use a cross hatch tool or a sharp knife to cut through the ink film only, apply 3M #600 clear tape to the cut area, rub down, wait for 1 minute and rip off at a 180° angle. Ink should only come off in the actual cut area.

Storage Store tightly covered at temperatures between 15°C - 32°C. Ink taken from the press should not be returned to the original container. Store separately to avoid contaminating unused ink.

Shelf life of unopened cans is 2 years from date of manufacture. Stir well before use. Shelf life of the catalyst is 1 year from date of manufacture in a sealed container.

caution

Please proof this ink, reduced to the consistency you wish to adopt, on a sample of the ACTUAL SUBSTRATE you will be printing BEFORE starting a production run.

Give the proof 24 hours to post cure then check for: Abrasion resistance, adhesion, print appearance and correctness of colour. The adequacy of this ink in these properties cannot be fully established on laboratory equipment on a small scale.

Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid prolonged breathing of vapour or spray mist. Keep container closed when not in use.

GL stands behind the quality of this product. GL cannot, however, guarantee the finished results because GL exercises no control over individual operating conditions and production procedures. While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. Users are also responsible for testing to determine that our product will perform as expected during the printed item's entire life cycle from printing, post-print processing, and shipment to end-use. This product has been specially formulated for screen printing, and it has not been tested for application by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from GL.

[end]

Last date amended: 7 February 2023